

4-31617 seq listing.ST25.txt
SEQUENCE LISTING

<110> Novartis AG

<120> Induction of blood vessel formation through administration of polynucleotides encoding sphingosine kinases

<130> 4-31617

<160> 6

<170> PatentIn version 3.1

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<212> DNA

<213> Homo sapiens

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<222> (1)..(1155)

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Page 8

245 4-31617 seq listing.ST25.txt 255

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Ser Asp Leu Pro Leu Pro Leu Pro Gln Pro Ala Leu Ala Ser Pro Gly
385 390 395 400

Ser Pro Glu Pro Leu Pro Ile Leu Ser Leu Asn Gly Gly Gly Pro Glu
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Leu Ala Gly Asp Trp Gly Gly Ala Gly Asp Ala Pro Leu Ser Pro Asp
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Leu Pro Thr Pro Asp Ala Arg Val Gly Ala Ser Thr Cys Gly Pro Pro
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Asp His Leu Leu Pro Pro Leu Gly Thr Pro Leu Pro Pro Asp Trp Val
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tcc	ggc	cgg	gac	tcc	cgg	cgg	ggg	cca	cct	cca	gaa	gaa	cca	taa			1149
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Val	Leu	Val	Leu	Leu	Asn	Pro	Gln	Gly	Gly	Lys	Gly	Lys	Ala	Leu	Gln
			20					25					30		

Leu	Phe	Gln	Ser	Arg	Val	Gln	Pro	Phe	Leu	Glu	Glu	Ala	Glu	Ile	Thr
		35				40						45			

Phe	Lys	Leu	Ile	Leu	Thr	Glu	Arg	Lys	Asn	His	Ala	Arg	Glu	Leu	Val
	50					55					60				

Cys	Ala	Glu	Glu	Leu	Gly	His	Trp	Asp	Ala	Leu	Ala	Val	Met	Ser	Gly
65					70					75					80

Asp	Gly	Leu	Met	His	Glu	Val	Val	Asn	Gly	Leu	Met	Glu	Arg	Pro	Asp
				85					90					95	

Trp	Glu	Thr	Ala	Ile	Gln	Lys	Pro	Leu	Cys	Ser	Leu	Pro	Gly	Gly	Ser
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4-31617 seq listing.ST25.txt

Gly Asn Ala Leu Ala Ala Ser Val Asn His Tyr Ala Gly Tyr Glu Gln
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Val Thr Asn Glu Asp Leu Leu Ile Asn Cys Thr Leu Leu Leu Cys Arg
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Arg Arg Leu Ser Pro Met Asn Leu Leu Ser Leu His Thr Ala Ser Gly
145 150 155 160

Leu Arg Leu Tyr Ser Val Leu Ser Leu Ser Trp Gly Phe Val Ala Asp
165 170 175

Val Asp Leu Glu Ser Glu Lys Tyr Arg Arg Leu Gly Glu Ile Arg Phe
180 185 190

Thr Val Gly Thr Phe Phe Arg Leu Ala Ser Leu Arg Ile Tyr Gln Gly
195 200 205

Gln Leu Ala Tyr Leu Pro Val Gly Thr Val Ala Ser Lys Arg Pro Ala
210 215 220

Ser Thr Leu Val Gln Lys Gly Pro Val Asp Thr His Leu Val Pro Leu
225 230 235 240

Glu Glu Pro Val Pro Ser His Trp Thr Val Val Pro Glu Gln Asp Phe
245 250 255

Val Leu Val Leu Val Leu Leu His Thr His Leu Ser Ser Glu Leu Phe
260 265 270

Ala Ala Pro Met Gly Arg Cys Glu Ala Gly Val Met His Leu Phe Tyr
275 280 285

Val Arg Ala Gly Val Ser Arg Ala Ala Leu Leu Arg Leu Phe Leu Ala
290 295 300

Met Gln Lys Gly Lys His Met Glu Leu Asp Cys Pro Tyr Leu Val His
305 310 315 320

Val Pro Val Val Ala Phe Arg Leu Glu Pro Arg Ser Gln Arg Gly Val
325 330 335

Phe Ser Val Asp Gly Gly Leu Met Val Cys Glu Ala Val Gln Gly Gln
340 345 350

Val His Pro Asn Tyr Leu Trp Met Val Cys Gly Ser Arg Asp Ala Pro
355 360 365

4-31617 seq listing.ST25.txt

Ser	Gly	Arg	Asp	Ser	Arg	Arg	Gly	Pro	Pro	Pro	Glu	Glu	Pro
	370					375					380		